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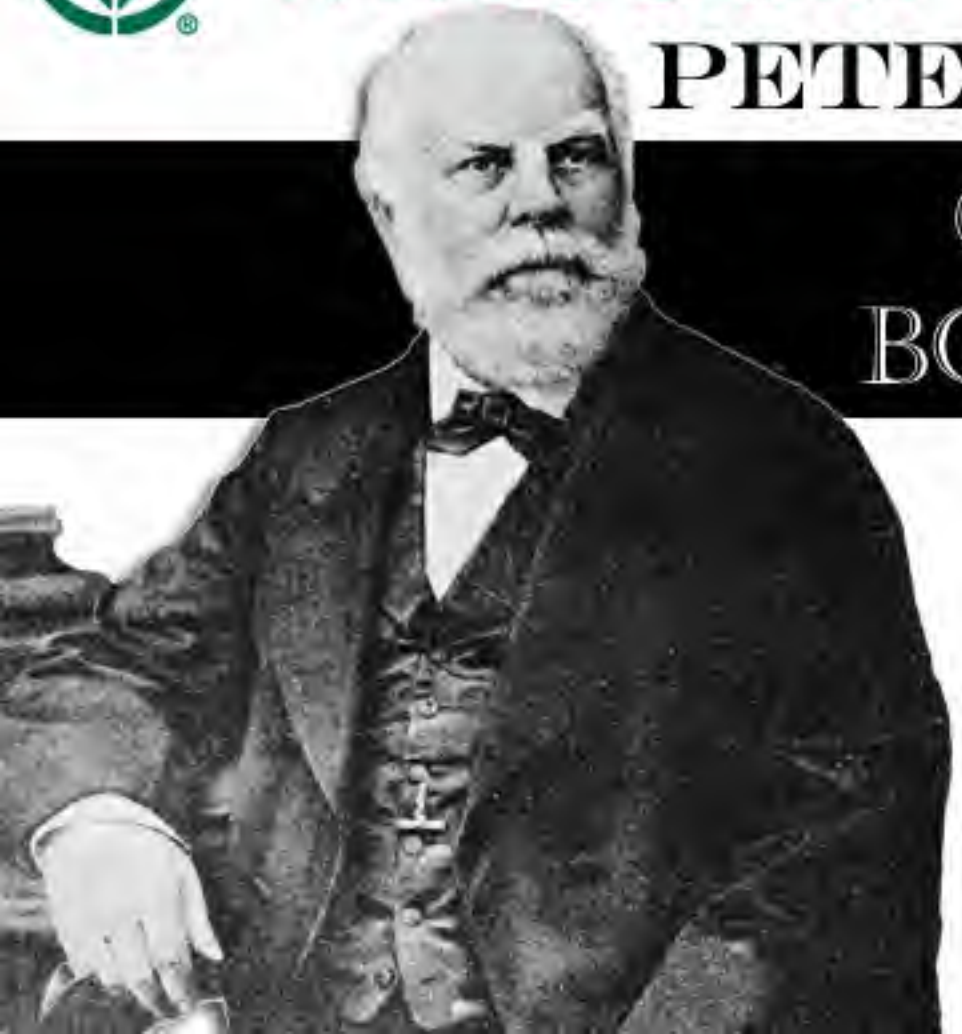
George Engelmann Botanical Notebooks



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D. glabra

1368-76

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Prof Gray — Letter dated Oxford Mi Jan 16 1867

Pinus glabra

I had confounded P. mitis and P. glabra, but they are well distinct in appearance and growth and locality.

P. glabra; bark like old trees of Acer saccharinum, from 12 feet or less right, the trunk bears instantly straggy branches, of roundish circumference, so that it is usual easy to climb the tree by them aid. It is called here "Cotton white Pine" for the white wood, which is "all sap" as people say, i.e. without resin. It is poor wood, used only for rails, but does not last.

Hab exclusively in sandy soil in bottoms or "second bottoms" with Illicium Floridanum, in the long leaf Pine region (also, overleaping the "central Pine region" south of Madison Co) most common in second bottoms of the Pascagoula. — Never in forests, always single.

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Dr Mellichamp Nov 25 1877

On the Savannah River — These fine woods, or rather swamps, of Cypress, nicaux oak, etc, with here and there the splendid specimens of Walter's fine Pinus glabra

On the edge of the swamp Beeches, Chestnuts, oaks and P. glabra in the back ground —

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[illegible] Thurber

[illegible] Accompanies Mrs.

[illegible] Dr Regel

[illegible] Asa Gray

[illegible] Kunze

[illegible] Pringle

[illegible] Coryphe

[illegible]

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Aug 2 Jan 28 1876 Bluff 22 Jan 1876

P.S. — I have from time
to time sent you sps of
P. glabra from Salt water,
but I must say I ever
sent you the bark from
an old tree, — certainly
not from trees growing
in or around a fresh
water swamp! With this
I am sending you portions
of bark with two cones
from splendid trees grow-
-ing on the "Grimball's
Hill" on the edge of New
River Swamps. A Virginian
who invited days used to
~~hunt~~ come to Carolina
every winter to hunt, —
— (a great lover of nature
in all her varied forms!)
frequently told me of the
beauty of a few pines ab
when deer hunting he found
at the said Grimballs Hill.

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Afternoon [illegible] went there yesterday with a friend, & then under on the edge of the swamp almost at the base of the "hill", were two magnificent pines — 60 - 80 ft — in height, with them vast like trunks & beautiful dark green compact foliage contrasting beautifully with the naked poplars & gums & tupelos around. The trees I suppose were very old, for their trunks were clean of branches & foliage for a long distance up. A sight worth seeing. The friend who was with me said they reminded him of the "Northern pines" trees he had seen at the north when a boy. About a half mile off were many trees of P. Mitis — but a very different looking tree is P. Mitis!!

J. H. McMichael

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Dr. J. H. Mellichamp,
Columbia, S. Carolina

of Pinus glabra, Walters Pine, I have seen about
a dozen trees in this neighbourhood;—
they are very easily distinguished I think
from P. Mitis of wh there are a great
many about me. I send 2 specimens
this one P. Mitis with the longest leaves
^ from this P. glabra with short leaves
^ smooth bark. The tree however from wh
the last was taken has shorter leaves I
think than usual ^ much slighter. The
top of the tree was black with the
little cones. P. glabra is I think
rather a beautiful tree, P. Mitis on the
other hand is rough ^ scraggy. I cannot
see why these trees should not have been con-
founded, — Especially by Elliott who ought to
have been familiar with them. To me they
seem entirely distinct so far as mere external [illegible]

P. S — You ask about the succeeding flowers in the letter; — if I mistaken not they are from the filamentous wh I remember sticking a magnifying; but I afterwards suspected a few of y. Draemia & I really do not feel sure to wh they belong ~~to the~~ but certainly not to y. flowers as there were no blooms of this as I remarked to you.

I shall be glad to send the Pine to you next spring — P. flabelliformis "Walters' Pine". I have seen about

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(5) the early dropping of the cones & the discharge of the "mast" (= the abundance of the pollen = the early 2-3, = the foliation of the bank) in larger flakes than P. canariensis, & the remarkable recurving of the young cones in April & May (as you have already been informed by all my three communications! I think that is all I have to say at present.

Very sincerely yours

H. H. Mellichamp

P.S. - I think I told you that I was asked to "locate" P. Ellioti. (Quite right!) I would place it between P. australis & P. Serotina.

Perhaps I'd better continue now, & tell you what I conceive to be the diff- ference between P. Mitis & P. Glabra!

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(6) P. glabra & P. mitis Apl 28 1876

One very striking difference between these two trees is the Bark. That of P. Mitis is in large flat coarse patches, — the furrows being always far apart — as thus, whereas the furrows in Glabra are close like those of an oak (almost like Live-oak sometimes) the intervening lamina therefore not flaking or scaling off — but becoming by the slow attrition of time somewhat Conical. thus. If you will Examine the bark of from trees on the P. glabra I sent you at Grimball's Hill edge of New River Swamp you will see what I mean. The bark therefore is very compact & dense and not liable at all to flake. These conditions always hold good for the two trees. I have seen the bark of P. Mitis in immense always very flat & coarse plates. This tendency to smoothness in the bark of the trunk of P. Glab becomes more marked as you go up the tree, & still more apparent in the branches, so much so that they become white & silvery, and as smooth as those of Beech or Hickory! Now even the youngest branchlets of P. Mitis are coarse & rough & scaly like P. Toda, or Ell, or Aust, or Serot, — but that is never the case in Glabra. The next difference is the

(7) a
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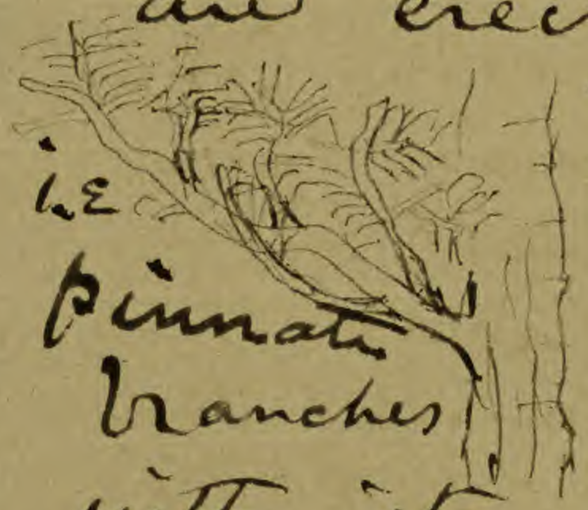
7) arrangement of the smaller branches
whspring from the main limbs
of the tree. In Mitis and all of
the other pines these smaller branches
and erect or somewhat erect, thus:



Pinnate
branches

whereas the tendency in flab.
is to
in old trees, a kind of
arrangement of these smaller
so that the whole limb
with its leaves & branches has a pressed
& flattened look just as your
might see in a large Cedar of
Lebanon - thus. This condition
with its dark
green foliage pines this
tree a peculiar
compact look
unusual in this
pine. Now this
flattening of very
branches is to me
characteristic of the tree
though I do not mean to say it is
invariable - but the tendency to
flattening will always be discovered.
I have diagnosed these trees at a
long distance at times of this peculiar
alone. Full grown trees of both M & G
are of very much the same size, but
although one sees long stretches of
Mitis on the road a site - (but only

in clay (and) — one finds slab
(8) in the swamps on the brink of
the river, & on the knolls among
Magnolias & Beeches & gum trees
& oaks, with no other pine near.
~~That is~~ slab is never found as
a forest, or a stretcher along the
road for miles, but scattered
here & there among the other
forest trees. And yet
you find it in places the most
diverse, but always scattered:
for instance, in a swamp where
again in the sandiest lands
along a bluff on Hilton Head
facing the ocean. In this respect
in not being confined to any
one peculiar soil it is like
Elliott's pine. But you will
never find it in a damp
sour, a flat pine barren!
I have seen slabs on the Edisto (Sav
& Charleston RR) about Coosawhatchie —
also near Sav. R. & New River — how
in sandy land & on H. Head — perhaps 200 trees only in all.
Nothing more! J. H. Sm

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H. A Curtis writes March 13 1866

H. W Ravenel is the only botanist in reach of *Pinus glabra*, which is unknown outside of Walter's old range. I passed thro' it with Ravenel some years ago, & was much struck with the appearance of P. glabra, which in the trunk, looked much more like a Maple than a Pine; it was so smooth in the bark. I collected only leaves and old cones. —

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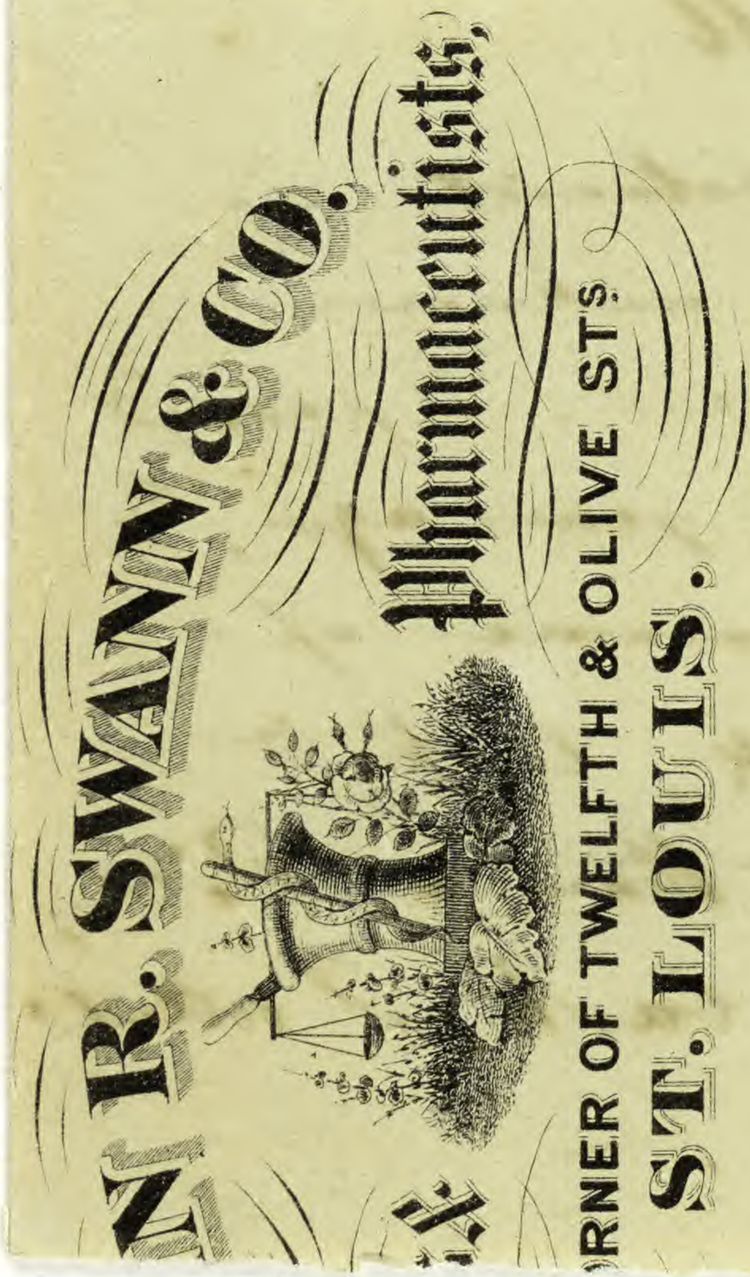

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Pinus glabra. It was long before I could get the claims of this as a species, acknowledged. Gray & Curtis and others to whom I sent specimens always called it "*P. mitis*" It is distinct enough in every respect from that last.

H W Ravenel April 21 1866

Ravenel is the only botanist within reach of *P. glabra*. Such is unknown outside of Walter's old range. I passed through it with Ravenel some years ago, and was much struck with the appearance of that pine, such is the trunk looked much more like a Maple than a Pine, it was so smooth in the bark

M. A. Curtis March 13. 1866

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Dr Garber writes Pants Rossa Lyd 2d '78

Pinus glabra "Spruce Pine" fertile, cone persistent

on high sand ridges common in S. Florida

vieillard jubilaire un album contenant les photographies de ceux qui l'estiment.

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Nous serions bien enchantés, Monsieur, de vous voir participer à cette ovation en envoyant votre carte photographique et s'il se pouvait, une contribution facultative quelquonque pour nous aider à couvrir les dépenses: le tout à l'adresse de Mr. le Professeur Dr. Augusto Kanitz à Kolozsvár (Hongrie)

Pinus glabra comes up with, once 4
~~only~~ 6, mostly 5 cotyledons or 6

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P. Jaeda

1377-9

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"var of P. Taeda"

Swamp or Slash-pine, Rosemary P.e of Washington N.C.
ex Curtis, woody plants of N. Car. 1860 p. 22, principally
from Edmund Ruffin's Articles in Russell's Magazine.

Grows only on low flat firm and moist land, the largest and
best timber is in best soil — Roanoke-Swamps — 5 feet
diameter and over 150 feet high, called in the navy yards
yellow pine, indiscriminately with the longleaved pine.

This is probably the same as
P. taeda var heterophylla Elliott. Sk. 2 636
along the marshes near the mouths of the fresh water rivers
Georgia etc, under the name of "smooth bark Loblolly Pine"
leaves in 2 & 3 bark smooth as in P. australis, has more
sapwood than any of our pines. Occasionally a very large tree.

no. 4 ½ a var Taeda

This remark about the sapwood makes it improbable that
it should be the same as the "Swamp Pine"

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Pinus Taeda, Virginia, J. G. Bischoff leg 1852 & mis. sub nom
Hb Mus Vindob
July 1869
P. longifolia; Prof G. W. Bischoff sec.; P. australis Mx

Pinus Taeda Drummond 326, 1832 New Orleans

- - - Berlandier 1694 Texas

P. mitis Drummond 324 1832 New Orleans

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Pinus Teeda Mich. Syl. Am. Ed. II. 158

"Amenti mascs. divergentibus"

Bloom-stipes acute nearly 1 inch long bent and reflexed like those of P. australis Mich. Flor. II. 205; Amenti mascs. oblongo-cylindrici patuli divergentibus.

Texas Lindheimer, not specific name

Canby 1878

12277

JONES & LEITCH,
DRUGGISTS
COR. FIFTH & MARKET STREETS,
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